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## Homework1

### Question 1:

- a) 1
- b) 2
- c) 2

### Question 2:

- a)  $X=3$
- b)  $X = 4$
- c) 4 cant be raised to any power to get 32 the value of x will be in decimal

### Question 3:

```
ANS: {"Howdy", "Hello", "Hey"};
```

First the value of greetings array will be the same as

```
{"Hi", "Hello", "Hey"};
```

but when it is passed through the change method the 0<sup>th</sup> index of array containing the value “Hi” will be replaced by Howdy.

### Question 4:

#### Dice.java

```
public class Dice {  
  
    private int noofSides ;  
    private Random randomNum;  
  
    public Dice(){  
        this.noofSides = 6;  
        this.randomNum= new Random();  
    }  
}
```

```
}

public Dice (int num){
    this.randomNum = new Random();
    this.noofSides = num;
}

public int roll(){
    int rollVal = randomNum.nextInt(noofSides) +1;
    return rollVal;
}
}
```

### **Playdice.java**

```
public class Playdice {
    public static void main(String[] args) {
        Dice dice = new Dice(10);
        for (int i = 0; i<3; i++){
            int getVal = dice.roll();
            System.out.println(getVal);
        }
    }
}
```